## Patent Claims

- 1. Microscope comprising a base body or a stand, a stage support, a guide for adjusting the stage support or an objective changer device with inserted objectives, and a stage for holding the object or specimen, characterized in that a supporting cell (7; 36) is provided and is connected to the stand (1; 30), preferably rigidly but so as to be exchangeable, and in that a first assembly is provided for receiving, holding and adjusting the objective (10; 41) and a second assembly is provided for positioning the object (19) or specimen relative to the objective (10; 41).
- 2. Microscope according to claim 1, characterized in that the supporting cell (7; 36) is rigidly fastened to a plurality of projections (8; 37) of the stand (1; 30).
- 3. Microscope according to claim 2, characterized in that damping and/or vibration-isolating intermediate layers (48) are arranged between the supporting cell (7; 36) and the contact surfaces of the projections (8; 37) of the stand (1; 30).
- 4. Microscope according to claim 1, characterized in that the supporting cell (7; 36) is arranged at the stand (1; 30) in a springing manner.
- 5. Microscope according to claim 1, characterized in that the first assembly is designed as an objective changer device and/or as an objective focusing device.
- 6. Microscope according to claim 1, characterized in that the second assembly comprises a stage support (17), a stage guide, and a stage (18; 45).
- 7. Microscope according to one of claims 1 to 6, characterized in that the supporting cell (7; 36) is optimized with respect to rigidity, use of material, dimensioning and thermal behavior while adhering to requirements for high stability and imaging quality of the microscope.
- 8. Microscope according to one of claims 1 to 7, characterized in that an objective changer device constructed as an objective turret (15; 40) is arranged at the supporting cell (7; 36).

- 9. Microscope according to one of claims 1 to 8, characterized in that means (20) for arranging a condenser (21) are provided at the stage support (17).
- 10. Microscope according to one of claims 1 to 8, characterized in that the stage guide has a guide plate (11; 38) that is fixedly arranged at the supporting cell (7; 36) and guide elements (12) at the stage support (17) which are in an operative connection with the guide plate (11).
- 11. Microscope according to one of claims 1 to 8, characterized in that the supporting cell (7; 36) comprises a thermally invariant ceramic material, sintered material or other suitable material or a combination of such materials.